

OR

- 6 a. Draw the interrupt vector table of 8086, and describe how the microprocessor gets the address of interrupt service routine. Demonstrate with the execution of Type-1 interrupt. (06 Marks)
- b. List the methods of passing the parameters to and from procedures. Briefly explain any one method. (06 Marks)
- c. Write a program to generate a delay of 50ms using an 8086 system that runs at 10MHz frequency. (04 Marks)

Module-4

- 7 a. With neat timing diagram, discuss the memory write cycle of 8086 microprocessor in maximum mode. (08 Marks)
- b. Design and draw the interface between 8086 CPU, and two chips of 16KB EPROM and two chips of 32KB RAM. The ending address of EPROM should be FFFFFh, and the starting address of RAM should be 00000h. (08 Marks)

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OR

- 8 a. Draw the block diagram of minimum mode 8086 system, and explain the same. (08 Marks)
- b. Draw the internal architecture of 8255 PPI, and describe mode 0 and BSR modes. (08 Marks)

Module-5

- 9 a. Interface ADC – 0808 with 8086 μ P using the ports of 8255 PPI – show the schematic diagram and write the required ALP. (08 Marks)
- b. Using DOS function calls, write an ALP to read a hexadecimal digit from key –board, and display its square on the computer screen. Use assembler directives. (08 Marks)

OR

- 10 a. Interface a stepper motor with 8086 μ P using the ports of 8255 PPI. Show the schematic diagram and write an ALP to rotate the motor shaft by 360° clockwise. (08 Marks)
- b. What is the use of 8087 coprocessor? With a neat diagram, explain the interconnection of 8087 with 8086 CPU. (08 Marks)
